

MEDICINE FOR PREVENTING OR TREATING NEURODEGENERATIVE DISEASES

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Abstract

PROBLEM TO BE SOLVED: To obtain the subject medicine containing a specific oxygen-containing heterocyclic derivative as an active ingredient, capable of inhibiting the action of carpine in the brain and effective for preventing and treating neurodegenerative diseases.

SOLUTION: This medicine contains an oxygen-containing heterocyclic derivative of the formula [R<1> is R<4>-CO, R<4> -O-CO, etc., (R<4> is a 1-20C alkyl which may be substituted by a 6-14C aryl which may have a substituent); R<2> is a 1-6C alkyl; R<3> is H, R<5> -CO; (R<5> is a 1-10C alkyl); A is a 1-3C alkylene which may have a 1-3C alkyl], its pharmaceutically permissible salt, etc., as an active ingredient. The compound includes (3R)-3-((S)-4-methyl-2-phenylsulfonylaminovaleryl-amino)-2-tetrahydrofuranol. The compound of the formula is obtained e.g. by a method comprising reacting an amino acid derivative with a suitable condensing agent, reacting the product with a lactone derivative, and subsequently treating the product with a reducing agent.

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